

Amendments to the Specification:

Please replace the Title on page 1 with the following new Title:

PLASTICIZED POLY VINYL CHLORIDE COMPOSITIONS.

At page 1, in the line after the Title, enter the following new heading and paragraph:

Related Applications

This application is filed under 35 U.S.C. § 371 claiming priority from application PCT/BR2002/000175 filed December 6, 2002, the entire contents of which are incorporated herein by reference.

Please replace the paragraph beginning on page 1, line 4, with the following amended paragraph:

The invention relates to plasticized ~~poly-vinyl~~ polyvinyl chloride compositions comprising at least one ~~poly-vinyl~~ polyvinyl chloride resin and a special plasticizer compounded with said at least one ~~poly-vinyl~~ polyvinyl chloride resin.

Please replace the paragraph beginning on page 1, line 8, with the following amended paragraph:

WO 01/98404 discloses a plasticized ~~vinyl~~ polyvinyl chloride composition comprising (a) at least one ~~vinyl~~ polyvinyl chloride resin and (b) a plasticizer compounded with (a) wherein said plasticizer comprises a fatty acid product derived from a vegetable oil having at least 80% by weight of unsaturated fatty acids, wherein said fatty acids are substantially fully esterified with a monool or a polyol, and said esterified unsaturated fatty acids have been substantially fully epoxidized.

Please replace the paragraph beginning on page 1, line 15, with the following

**Preliminary Amendment of U.S. National Stage for International Application
PCT/BR2002/000175 filed December 6, 2002**

amended paragraph:

In an article entitled "Use of esterified rapeseed oil as plasticizer" in plastics processing" by Johannes Wehlmann it is mentioned that in most cases phthalic acid esters, especially dioctyl phthalate (DOP), are used as plasticizers for ~~poly-vinyl~~ polyvinyl chloride (PVC) resins (see **Fett/Lipid 101, 1999, No. 6, pages 249-256**). However, phthalate plasticizers are criticized because of their environmentally harmful action. The author then describes the use of rape methyl ester as plasticizer.

Please replace the heading beginning on page 1, line 22, with the following amended heading:

Detailed Brief Description of the Invention

Please replace the paragraph beginning on page 1, line 23, with the following amended paragraph:

It ~~[[was]]~~ is an object of the present invention to provide plasticizers for plastics, especially PVC, which overcome the difficulties and disadvantages of the plasticizers of the prior art. It ~~[[was]]~~ is a further object of the invention that PVC plastisol formulations based on these plasticizers show a reduced viscosity compared with formulations based on phthalic ester type plasticizers like dioctyl phthalate (DOP). As it is known to the artisan plastisols are dispersions of plastics, especially PVC, in plasticizers.

Please replace the paragraph beginning on page 1, line 30, and ending on page 2, line 8, with the following amended paragraph:

According to the invention this is achieved by **plasticized ~~poly-vinyl~~ polyvinyl chloride compositions** comprising (a) 100 parts by weight of at least

**Preliminary Amendment of U.S. National Stage for International Application
PCT/BR2002/000175 filed December 6, 2002**

amended paragraph:

In an article entitled "Use of esterified rapeseed oil as plasticizer" in plastics processing" by Johannes Wehlmann it is mentioned that in most cases phthalic acid esters, especially dioctyl phthalate (DOP), are used as plasticizers for ~~poly-vinyl~~ polyvinyl chloride (PVC) resins (see **Fett/Lipid 101, 1999, No. 6, pages 249-256**). However, phthalate plasticizers are criticized because of their environmentally harmful action. The author then describes the use of rape methyl ester as plasticizer.

Please replace the heading beginning on page 1, line 22, with the following amended heading:

Detailed Brief Description of the Invention

Please replace the paragraph beginning on page 1, line 23, with the following amended paragraph:

It ~~[[was]]~~ is an object of the present invention to provide plasticizers for plastics, especially PVC, which overcome the difficulties and disadvantages of the plasticizers of the prior art. It ~~[[was]]~~ is a further object of the invention that PVC plastisol formulations based on these plasticizers show a reduced viscosity compared with formulations based on phthalic ester type plasticizers like dioctyl phthalate (DOP). As it is known to the artisan plastisols are dispersions of plastics, especially PVC, in plasticizers.

Please replace the paragraph beginning on page 1, line 30, and ending on page 2, line 8, with the following amended paragraph:

**Preliminary Amendment of U.S. National Stage for International Application
PCT/BR2002/000175 filed December 6, 2002**

one ~~poly-vinyl~~ polyvinyl chloride resin and (b) 0,1 to 200 parts by weight of a plasticizer compounded with said at least one ~~poly-vinyl~~ polyvinyl chloride resin, wherein said plasticizer comprises (i) esters of fatty acids with 8 to 14 carbon atoms and isobutanol with the proviso that the fatty acids can be saturated or olefinically unsaturated, linear or branched and contain at least one epoxy group per molecule and (ii) one or more methyl esters of fatty acids with 16 to 18 carbon atoms with the proviso that these fatty acids can be saturated or olefinically unsaturated, linear or branched.

Please add the following new heading on page 2, before line 15:

Detailed Description of the Invention.

Please replace the paragraph beginning on page 2, line 28, and ending on page 3, line 4, with the following amended paragraph:

The invention also relates to the **use** of compositions comprising (i) esters of fatty acids with 8 to 24 carbon atoms and isobutanol with the proviso that the fatty acids can be saturated or olefinically unsaturated, linear or branched and contain at least one epoxy group per molecule and (ii) one or more methyl esters of fatty acids with 16 to 18 carbon atoms with the proviso that these fatty acids can be saturated or olefinically unsaturated, linear or branched **as plasticizers for polyvinyl polyvinyl chloride resins**. As stated above the compositions are preferably free of ~~are free of~~ phthalic ester type plasticizers.

Please replace lines 21 and 22 on page 3 with the following amended lines:

PVC = Poly-vinyl Polyvinyl chloride produced by emulsion polymerization (Solvic 374 MB commercially available from SOLVAY)

Please replace the paragraph beginning on page 4, line 2, with the following

**Preliminary Amendment of U.S. National Stage for International Application
PCT/BR2002/000175 filed December 6, 2002**

amended paragraph:

The viscosity of the formulation was measured according to Brookfield (Spindle 5 at 20 rpm). It was ~~[[36.000]]~~ 36,000 cps. The value of the viscosity is much lower compared to the formulation of comparative example 1 which is based on dioctyl phthalate as plasticizer.

Please replace the paragraph beginning on page 4, line 6, with the following amended paragraph:

The formulation was then transferred into a ball by rotational moulding at 180 °C. The shore A hardness of the ball was measured. It was ~~[[54,8]]~~ 54.8. The value of the shore A hardness is nearly the same as the shore A hardness of the ball in comparative example 1. This shows that the IES/IFAME mixture is as good a ~~[[s]]~~ plasticizer as the "classical" dioctylphthalate

Please replace the paragraph beginning on page 4, line 20, with the following amended paragraph:

The viscosity of the formulation was measured according to Brookfield (Spindle 7, 5 rpm). It was ~~[[125.400]]~~ 125,400 cps.

Please replace the paragraph beginning on page 4, line 22, with the following amended paragraph:

The formulation was then transferred into a ball by rotational moulding at 180 °C. The shore A hardness of the ball was measured; it was ~~[[54,0]]~~ 54.0.

Please replace the heading on page 5, line 1, with the following amended heading:

~~Claims~~ **WE CLAIM:**

**Preliminary Amendment of U.S. National Stage for International Application
PCT/BR2002/000175 filed December 6, 2002**

Please delete page 7 containing the Abstract of the Disclosure and add new page, 7, submitted herewith.